

OXYBUTYNIN CHLORIDE - oxybutynin chloride syrup

Silarx Pharmaceuticals, Inc

DESCRIPTION

Chemically, oxybutynin chloride d,l (racemic)4-diethylamino-2-butynyl phenylcyclohexylglycolate hydrochloride. The structural formula, molecular formula and molecular weight of oxybutynin chloride are as follows:



Oxybutynin chloride is a white crystalline powder. It is readily soluble in water and acids, but relatively insoluble in alkalis.

Each 5 mL, for oral administration, contains 5 mg of oxybutynin chloride. In addition, the following inactive ingredients are present: citric acid, FD&C Green No. 3, flavor, glycerin, methylparaben, propylene glycol, sodium citrate, sorbitol solution, sucrose and water. Therapeutic Category: Antispasmodic, anticholinergic.

CLINICAL PHARMACOLOGY

Oxybutynin chloride exerts direct antispasmodic effects on smooth muscle and inhibits the muscarinic action of acetylcholine on smooth muscle. Oxybutynin chloride exhibits only one fifth of the anticholinergic activity of atropine on the rabbit detrusor muscle, but four to ten times the antispasmodic activity. No blocking effects occur at skeletal neuromuscular junctions or autonomic ganglia (antinicotinic effects).

Oxybutynin chloride relaxes bladder smooth muscle. In patients with conditions characterized by involuntary bladder contractions, cystometric studies have demonstrated that oxybutynin chloride increases bladder (vesical) capacity, diminishes the frequency of uninhibited contractions of the detrusor muscle, and delays the initial desire to void. Oxybutynin chloride thus decreases urgency and the frequency of both incontinent episodes and voluntary urination.

Oxybutynin chloride was well tolerated in patients administered the drug in controlled studies of 30 days' duration and in uncontrolled studies in which some of the patients received the drug for 2 years. Pharmacokinetic information is not currently available.

INDICATIONS AND USAGE

Oxybutynin Chloride Syrup is indicated for the relief of symptoms of bladder instability associated with voiding in patients with uninhibited neurogenic or reflex neurogenic bladder (i.e., urgency, frequency, urinary leakage, urge incontinence, dysuria).

CONTRAINDICATIONS

Oxybutynin chloride is contraindicated in patients with untreated angle closure glaucoma and in patients with untreated narrow anterior chamber angles since anticholinergic drugs may aggravate these conditions.

It is also contraindicated in partial or complete obstruction of the gastrointestinal tract, paralytic ileus, intestinal atony of the elderly or debilitated patient, megacolon, toxic megacolon complicating ulcerative colitis, severe colitis, and myasthenia gravis. It is contraindicated in patients with obstructive uropathy and in patients with unstable cardiovascular status in acute hemorrhage.

Oxybutynin chloride is contraindicated in patients who have demonstrated hypersensitivity to the product.

WARNINGS

Oxybutynin chloride, when administered in the presence of high environmental temperature, can cause heat prostration (fever and heat stroke due to decreased sweating).

Diarrhea may be an early symptom of incomplete intestinal obstruction, especially in patients with ileostomy or colostomy. In this instance treatment with oxybutynin chloride would be inappropriate and possibly harmful.

Oxybutynin chloride may produce drowsiness or blurred vision. The patient should be cautioned regarding activities requiring mental alertness such as operating a motor vehicle or other machinery or performing hazardous work while taking this drug.

Alcohol or other sedative drugs may enhance the drowsiness caused by oxybutynin chloride.

PRECAUTIONS

Oxybutynin chloride should be used with caution in the elderly and in all patients with autonomic neuropathy, hepatic or renal disease.

Oxybutynin chloride may aggravate the symptoms of hyperthyroidism, coronary heart disease, congestive heart failure, cardiac arrhythmias, hiatal hernia, tachycardia, hypertension, and prostatic hypertrophy. Administration of oxybutynin chloride to patients with ulcerative colitis may suppress intestinal motility to the point of producing a paralytic ileus and precipitate or aggravate toxic megacolon, a serious complication of the disease.

Carcinogenesis, Mutagenesis, Impairment Of Fertility

A 24-month study in rats at dosages up to approximately 400 times the recommended human dosage showed no evidence of carcinogenicity.

Oxybutynin chloride showed no increase of mutagenic activity when tested in *Schizosaccharomyces pompholiciformis*, *Saccharomyces cerevisiae* and *Salmonella typhimurium* test systems. Reproduction studies in the hamster, rabbit, rat, and mouse have shown no definite evidence of impaired fertility.

Pregnancy: Teratogenic Effects-Pregnancy Category B

Reproduction studies in the hamster, rabbit, rat, and mouse have shown no definite evidence of impaired fertility or harm to the animal fetus. The safety of oxybutynin chloride administered to women who are or who may become pregnant has not been established. Therefore, oxybutynin chloride should not be given to pregnant women unless, in the judgment of the physician, the probable clinical benefits outweigh the possible hazards.

Nursing Mothers:

It is not known whether this drug is excreted in human milk. Because many drugs are excreted in human milk, caution should be exercised when oxybutynin chloride is administered to a nursing woman.

Pediatric Use:

The safety and efficacy of oxybutynin chloride administration have been demonstrated for pediatric patients 5 years of age and older (see DOSAGE AND ADMINISTRATION). However, as there is insufficient clinical data for pediatric patients under age 5, oxybutynin chloride is not recommended for this age group.

ADVERSE REACTIONS

Following administration of oxybutynin chloride, the symptoms that can be associated with the use of other anticholinergic drugs may occur:

Cardiovascular: Palpitations, tachycardia, vasodilatation.

Dermatologic: Decreased sweating, rash.

Gastrointestinal/ Genitourinary: Constipation, decreased gastrointestinal motility, dry mouth, nausea, urinary hesitance and retention.

Nervous System: Asthenia, dizziness, drowsiness, hallucinations, insomnia, restlessness

Ophthalmic: Amblyopia, cycloplegia, decreased lacrimation, mydriasis.

Other: Impotence, suppression of lactation.

OVERDOSAGE

The symptoms of overdosage with oxybutynin chloride may be any of those seen with other anticholinergic agents. Symptoms may include signs of central nervous system excitation (e.g., restlessness, tremor, irritability, convulsions, delirium, hallucinations), flushing, fever, nausea, vomiting, tachycardia, hypotension or hypertension, respiratory failure, paralysis, and coma.

In the event of an overdosage or exaggerated response, treatment should be symptomatic and supportive. Maintain respiration and induce emesis or perform gastric lavage (emesis is contraindicated in precoma, convulsive, or psychotic state). Activated charcoal may be administered as well as a cathartic. Physostigmine may be considered to reverse symptoms of anticholinergic intoxication. Hyperpyrexia may be treated symptomatically with ice bags or other cold applications and alcohol sponges.

DOSAGE AND ADMINISTRATION

Adults: The usual dose is one teaspoonful (5 mg/5 mL) syrup two to three times a day. The maximum recommended dose is one teaspoonful (5 mg/5mL) syrup four times a day.

Children over 5 years of age: The usual dose is one teaspoonful (5 mg/5 mL) two times a day. The maximum recommended dose is one teaspoonful (5 mg/5 mL) three times a day.

HOW SUPPLIED

Oxybutynin Chloride Syrup USP (5 mg/5 mL) is supplied in bottles of one pint (473 mL). Oxybutynin Chloride Syrup (5 mg/5 mL) is a light bluish-green liquid with a characteristic raspberry flavor.

Pharmacist: Dispense in tight, light-resistance container as defined in the USP. Store at controlled room temperature 15°C-30°C (59°F-86°F).

Rx only.

Manufactured by
Silarx Pharmaceuticals, Inc.
Spring Valley, NY 10977

| SILARX | |
|--|---|
| NDC 54838-508-80 | NDC 54838-508-80 |
| METOCLOPRAMIDE | METOCLOPRAMIDE |
| ORAL SOLUTION USP | ORAL SOLUTION USP |
| 5 mg per 5 mL | 5 mg per 5 mL |
| Rx only | Rx only |
| Each 5 mL (1 teaspoonful) contains: Metoclopramide base 5 mg (as the monohydrochloride monohydrate) in a palatable, aromatic, sugar-free vehicle. | PHARMACIST: PLEASE DISPENSE WITH MEDICATION GUIDANCE PROVIDED SEPARATELY |
| For dosage and other prescribing information, see accompanying product literature. | BULK CONTAINER - The container is not child-resistant. Not for household use. |
| Store at controlled room temperature, between 20° and 25°C (68° and 77°F) (see USP). | 1 Pint (473 mL) |
| Dispense in a tight, light-resistant container with a child-resistant closure (as required). | Manufactured by Silarx Pharmaceuticals, Inc. 10 West Street Spring Valley, NY 10977 USA |
| 54838-508-80 Rev. 04/20 | |